

ABSTRACT

A superimposed steering system for a vehicle, e.g., a servo-assisted or power steering system for a motor vehicle, includes a differential drive, which is configured as a shaft drive and has a first input shaft and a second input shaft, for superimposing the rotational angles that occur in the first and second input shafts on an output shaft of the differential drive. The output shaft acts on an input shaft of a steering gear. The first input shaft interacts with a steering handle by a steering shaft and the second input shaft interacts with a servo motor. A superimposed steering system may apply an additional steering angle, without play, to the output shaft and may have a simple, cost-effective, space-saving construction, while being easy to install. The first input shaft is directly connected in a detachable manner to a radially flexible flex-spline of the shaft drive, the first input shaft passing through an eccentric drive core of the shaft drive, which extends into the radially flexible flex spline.